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S03W2
Cap. 2

WATER SUPPLY OUTLOOK FOR UTAH



U. S. DEPARTMENT of AGRICULTURE ★ SOIL CONSERVATION SERVICE

Collaborating with

UTAH STATE DEPARTMENT OF NATURAL RESOURCES
-- DIVISION OF WATER RIGHTS

Data included in this report were obtained by the agencies named above in cooperation with Federal, State and private organizations listed inside the back cover of this report.

AS OF
JUNE 1, 1978

TO RECIPIENTS OF WATER SUPPLY OUTLOOK REPORTS:

Most of the usable water in western states originates as mountain snowfall. This snowfall accumulates during the winter and spring, several months before the snow melts and appears as streamflow. Since the runoff from precipitation as snow is delayed, estimates of snowmelt runoff can be made well in advance of its occurrence. Streamflow forecasts published in this report are based principally on measurement of the water equivalent of the mountain snowpack.

Forecasts become more accurate as more of the data affecting runoff are measured. All forecasts assume that climatic factors during the remainder of the snow accumulation and melt season will interact with a resultant average effect on runoff. Early season forecasts are therefore subject to a greater change than those made on later dates.

The snow course measurement is obtained by sampling snow depth and water equivalent at surveyed and marked locations in mountain areas. A total of about ten samples are taken at each location. The average of these are reported as snow depth and water equivalent. These measurements are repeated in the same location near the same dates each year.

Snow surveys are made monthly or semi-monthly from January 1 through June 1 in most states. There are about 1900 snow courses in Western United States and in the Columbia Basin in British Columbia. Networks of automatic snow water equivalent and related data sensing devices, along with radio telemetry are expanding and will provide a continuous record of snow water and other parameters at key locations.

Detailed data on snow course and soil moisture measurements are presented in state and local reports. Other data on reservoir storage, summaries of precipitation, current streamflow, and soil moisture conditions at valley elevations are also included. The report for Western United States presents a broad picture of water supply outlook conditions, including selected streamflow forecasts, summary of snow accumulation to date, and storage in larger reservoirs.

Snow survey and soil moisture data for the period of record are published by the Soil Conservation Service by states about every five years. Data for the current year is summarized in a West-wide basic data summary and published about October 1 of each year.

COVER PHOTO: SOME OF THE DATA IN THIS REPORT HAVE BEEN RECEIVED THROUGH THE SOIL CONSERVATION SERVICE'S NEW SNOTEL SYSTEM WHICH TRANSMITS INFORMATION VIA THE SPACE AGED METEOR BURST METHOD FROM DATA SITES TO MASTER STATIONS LIKE THESE.

PUBLISHED BY SOIL CONSERVATION SERVICE

The Soil Conservation Service publishes reports following the principal snow survey dates from January 1 through June 1 in cooperation with state water administrators, agricultural experiment stations and others. Copies of the reports for Western United States and all state reports may be obtained from Soil Conservation Service, West Technical Service Center, Room 510, 511 N.W. Broadway, Portland, Oregon 97209.

Copies of state and local reports may also be obtained from state offices of the Soil Conservation Service in the following states:

STATE	ADDRESS
Alaska	Room 129, 2221 East Northern Lights Blvd., Anchorage, Alaska 99504
Arizona	Room 3008, Federal Building, Phoenix, Arizona 85025
Colorado (N. Mex.)	P. O. Box 17107, Denver, Colorado 80217
Idaho	Room 345, 304 N. 8th. St., Boise, Idaho 83702
Montana	P. O. Box 98, Bozeman, Montana 59715
Nevada	P. O. Box 4850, Reno Nevada 89505
Oregon	1220 S.W. Third Ave., Portland, Oregon 97204
Utah	4012 Federal Bldg., 125 South State St., Salt Lake City, Utah 84138
Washington	360 U.S. Court House, Spokane, Washington 99201
Wyoming	P. O. Box 2440, Casper, Wyoming 82602

PUBLISHED BY OTHER AGENCIES

Water Supply Outlook reports prepared by other agencies include a report for California by the Water Supply Forecast and Snow Surveys Unit, California Department of Water Resources, P.O. Box 388, Sacramento, California 95802 --- for British Columbia by the Ministry of the Environment, Water Investigations Branch, Parliament Buildings, Victoria, British Columbia V8V 1X5 --- for Yukon Territory by the Department of Indian and Northern Affairs, Northern Operations Branch, 200 Range Road, Whitehorse, Yukon Territory Y1A 3V1 --- and for Alberta, Saskatchewan, and N.W.T. by the Water Survey of Canada, Inland Waters Branch, 110-12 Avenue S.W., Calgary, Alberta T3C 1A6.



WATER SUPPLY OUTLOOK FOR UTAH

and
FEDERAL - STATE - PRIVATE COOPERATIVE SNOW SURVEYS

Issued by

R. M. DAVIS

ADMINISTRATOR
SOIL CONSERVATION SERVICE
WASHINGTON, D.C.

|||||
Released by

GEORGE D. McMILLAN

STATE CONSERVATIONIST
SOIL CONSERVATION SERVICE
SALT LAKE CITY, UTAH

In Cooperation with

UTAH STATE DEPT. OF NATURAL RESOURCES

DEE C. HANSEN

State Engineer

Division of Water Rights

DANIEL F. LAWRENCE

Director

Division of Water Resources
|||||

Report prepared by

BOB L. WHALEY, Snow Survey Supervisor

KENNETH C. JONES, Assistant Snow Survey Supervisor

and

LINDA K. LYTTON, Statistical Assistant

SOIL CONSERVATION SERVICE
SNOW SURVEY SECTION
4012 FEDERAL BUILDING
SALT LAKE CITY, UTAH 84138

WATER SUPPLY OUTLOOK

as of
June 1, 1978

* * * * *
* Utah's water supply outlook ranges from below average for *
* some reservoir water users in Uintah and Sevier Basins to *
* average or better than average for most other areas of the *
* state. Snow cover remains at about 50 high elevation snow *
* courses and most reservoirs are expected to fill except in *
* Uintah and Sevier Basins. Most streamflow has been held *
* back by freezing nighttime temperatures, but total volume *
* is still expected to remain about as forecast May 1. *
* * * * *

SNOW COVER

About 50 of 160 snow courses still have measureable snow. Water contents range as high as 39.2 inches at Steep Hollow #1 on the Logan River. Snow courses on the Uintas showed from zero at lower elevations to an estimated 33.6 inches of water at Lightning Lake aerial marker. High aerial markers in the Uintas show very good snow cover and should help produce better flows than previously expected.

Delayed snowmelt has caused high elevations to retain snow longer than usual leaving good snow cover along Skyline Road in central Utah, the head of the Beaver, Sevier, Virgin, Weber, Provo, and Ogden Rivers.

PRECIPITATION

Mountain precipitation generally ranged from near average to better than twice the May average. Areas where precipitation was below average were Panguitch Lake, Ben Lomond Lower, and LaSal Mountain.

SOIL MOISTURE

Dry watershed soils were soaking up runoff water on the Sevier River, Uintah Basin, Ogden, Weber and Provo Rivers.

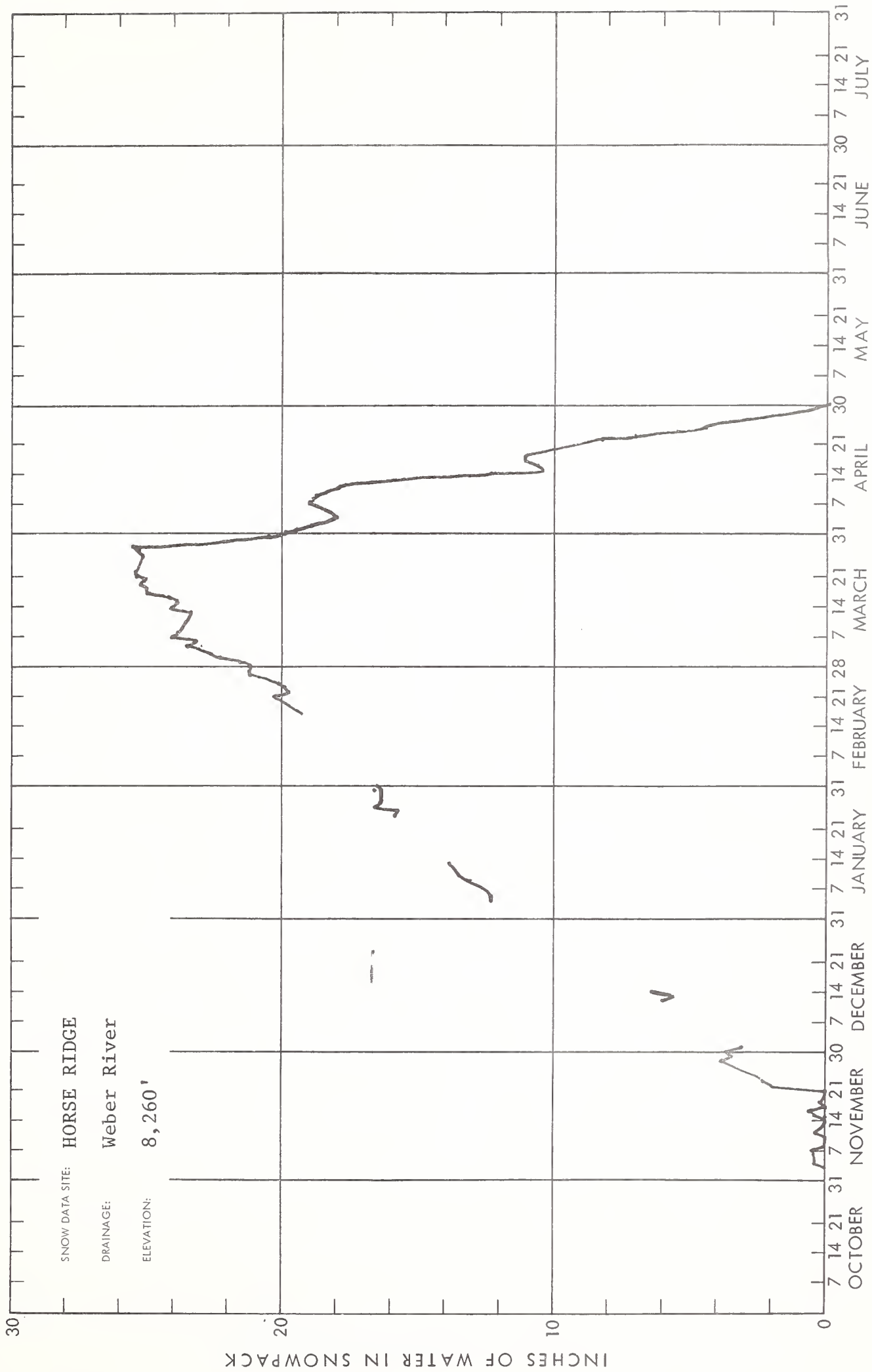
RESERVOIR STORAGE

Reservoirs are full or expected to fill soon on most streams. They are not expected to fill in Uintah and Sevier Basins. Great Salt Lake is now at the 4200.25 foot elevation and Utah Lake is 0.85 feet below compromise.

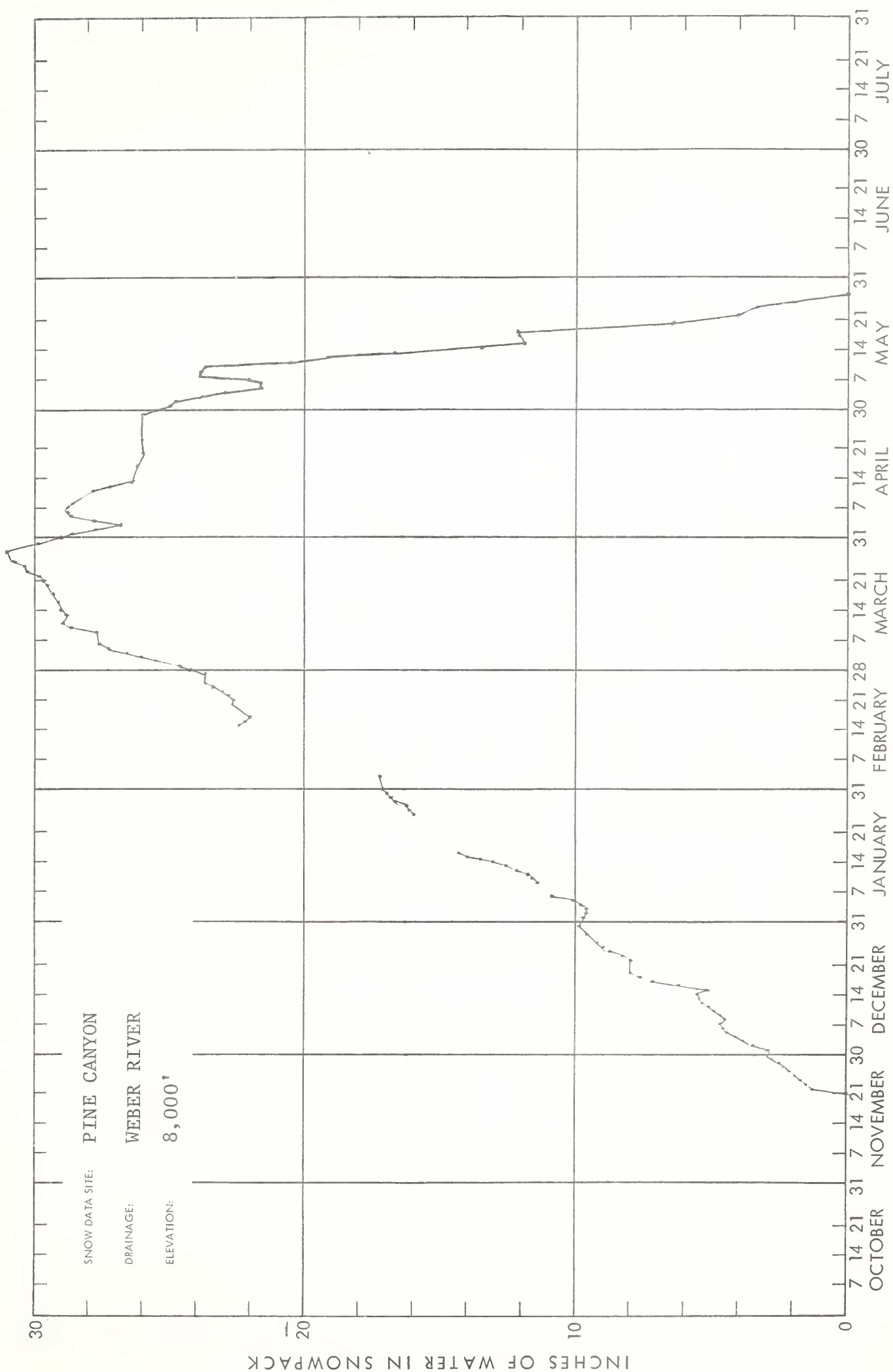
STREAMFLOW

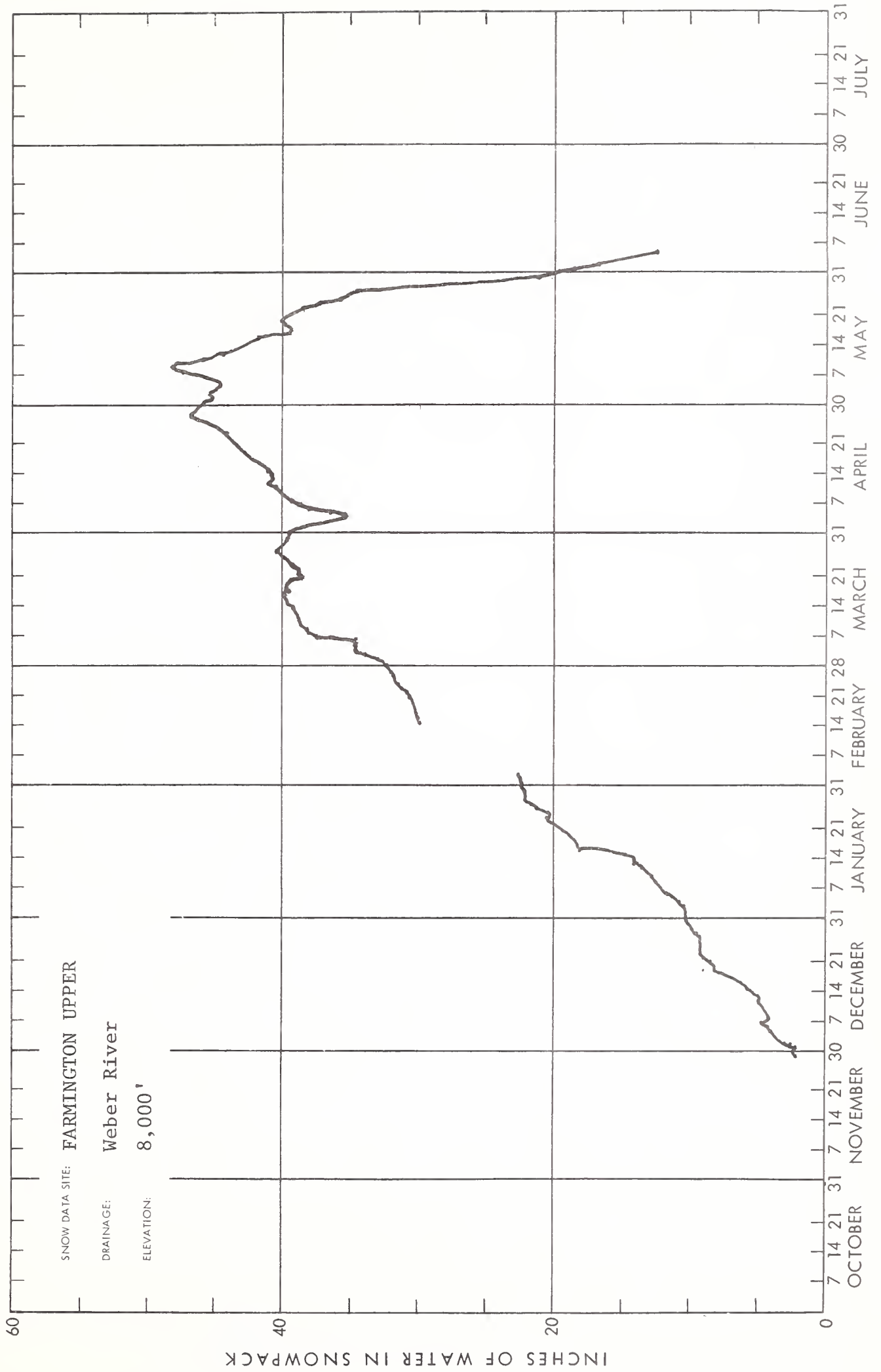
Streamflow during May according to the U.S. Geological Survey ranged from about 55% of median on Whiterocks River to 155% on the Beaver River. The Weber at Oakley was 82%, Big Cottonwood 90%, Green River at Green River 95%, the Colorado at Cisco 109%, and the San Juan at Bluff 98%. Flow on most streams was reduced by cold temperatures and dry soils. Streamflow volumes are still expected to be about as forecast May 1. Peak flows may be less than forecasted due to colder than average melt conditions during May.

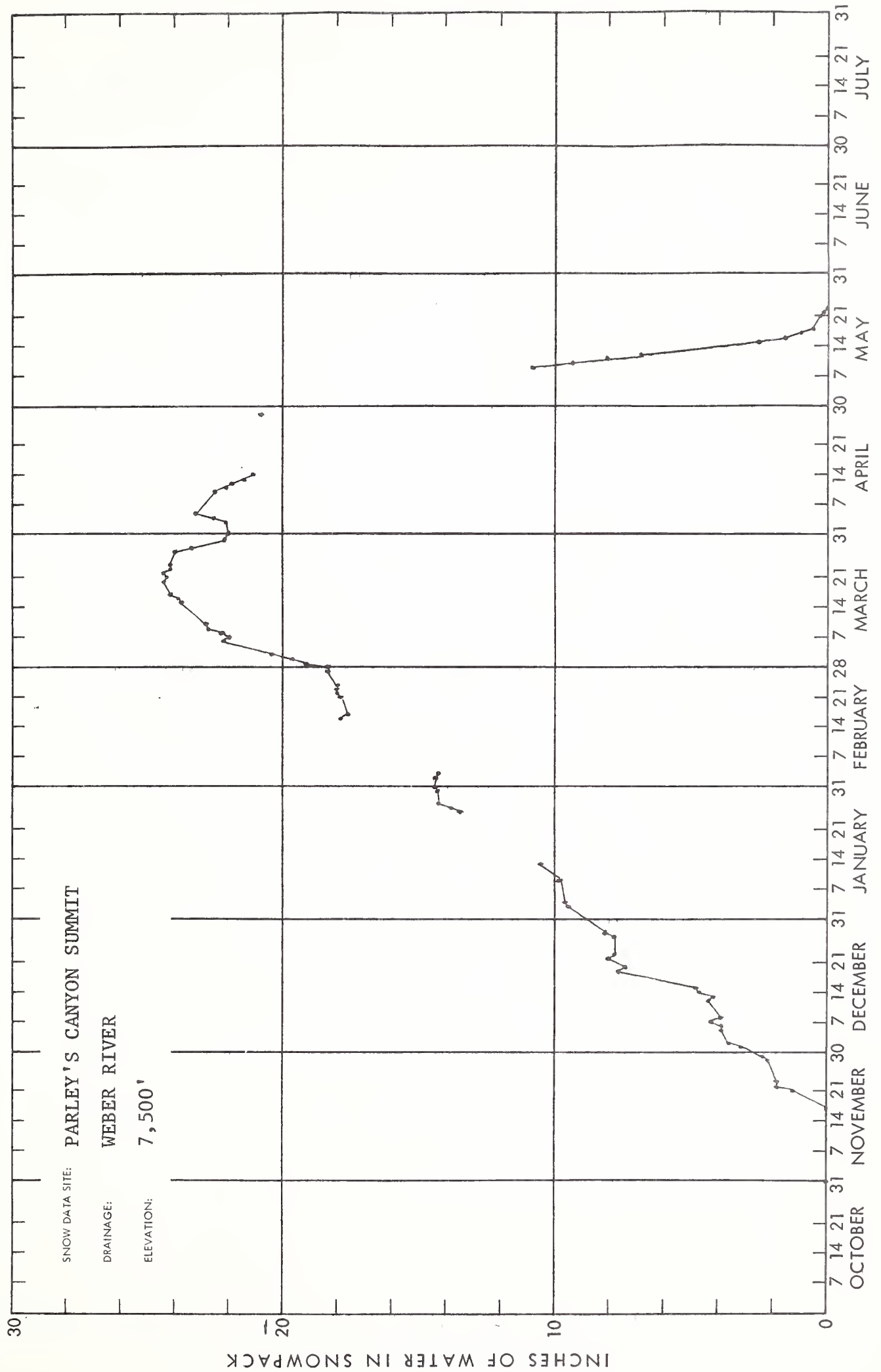
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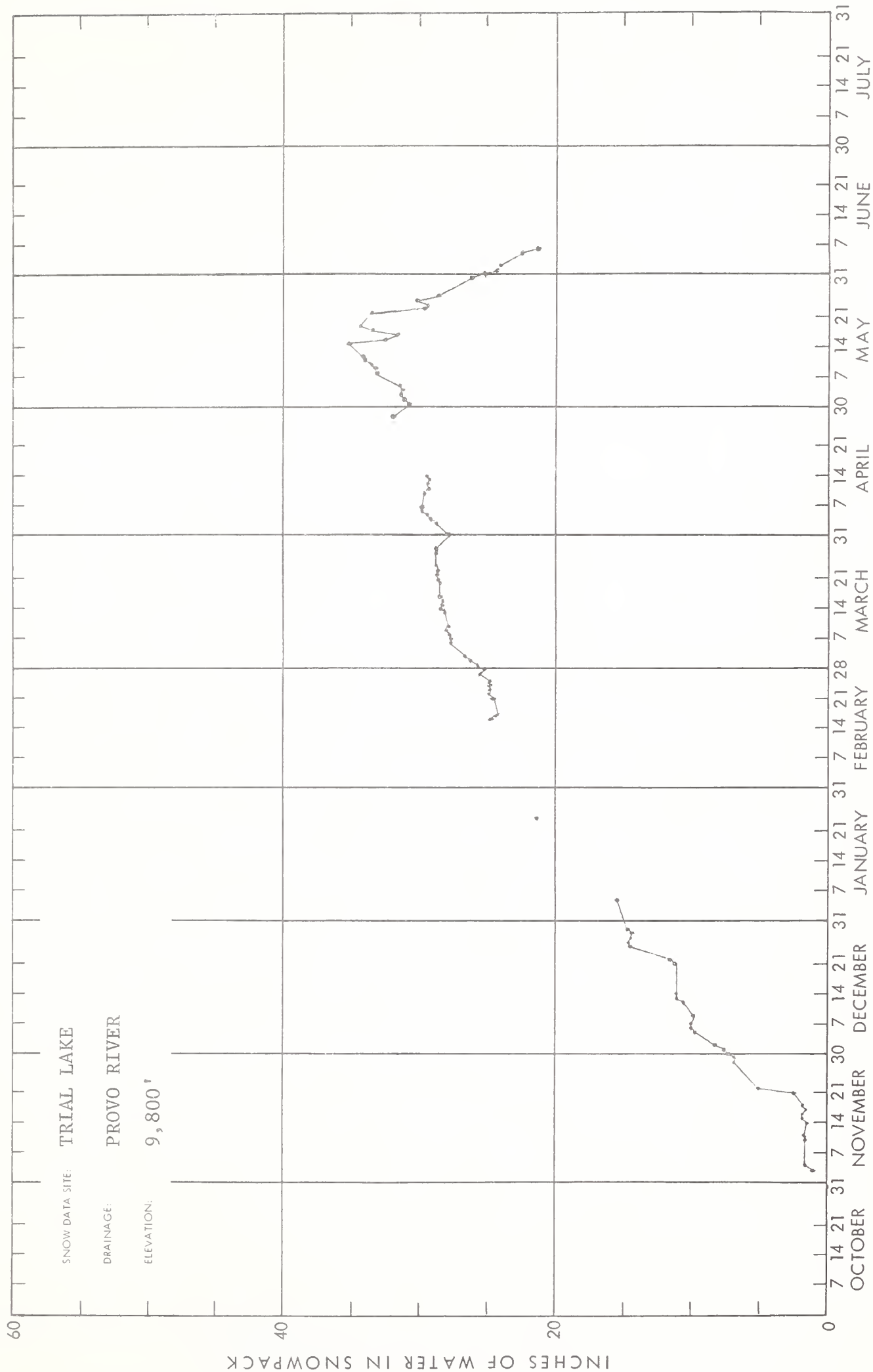


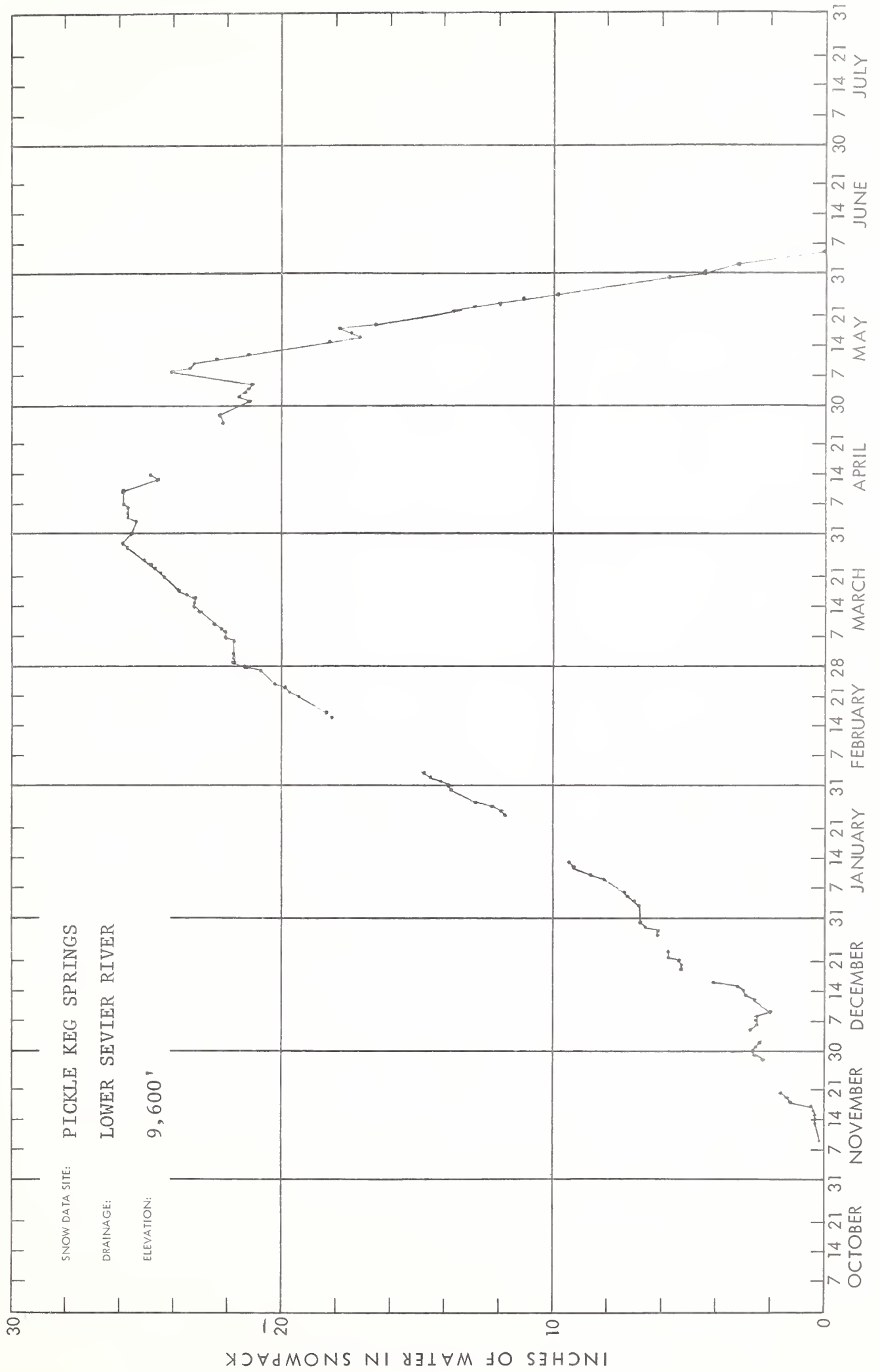
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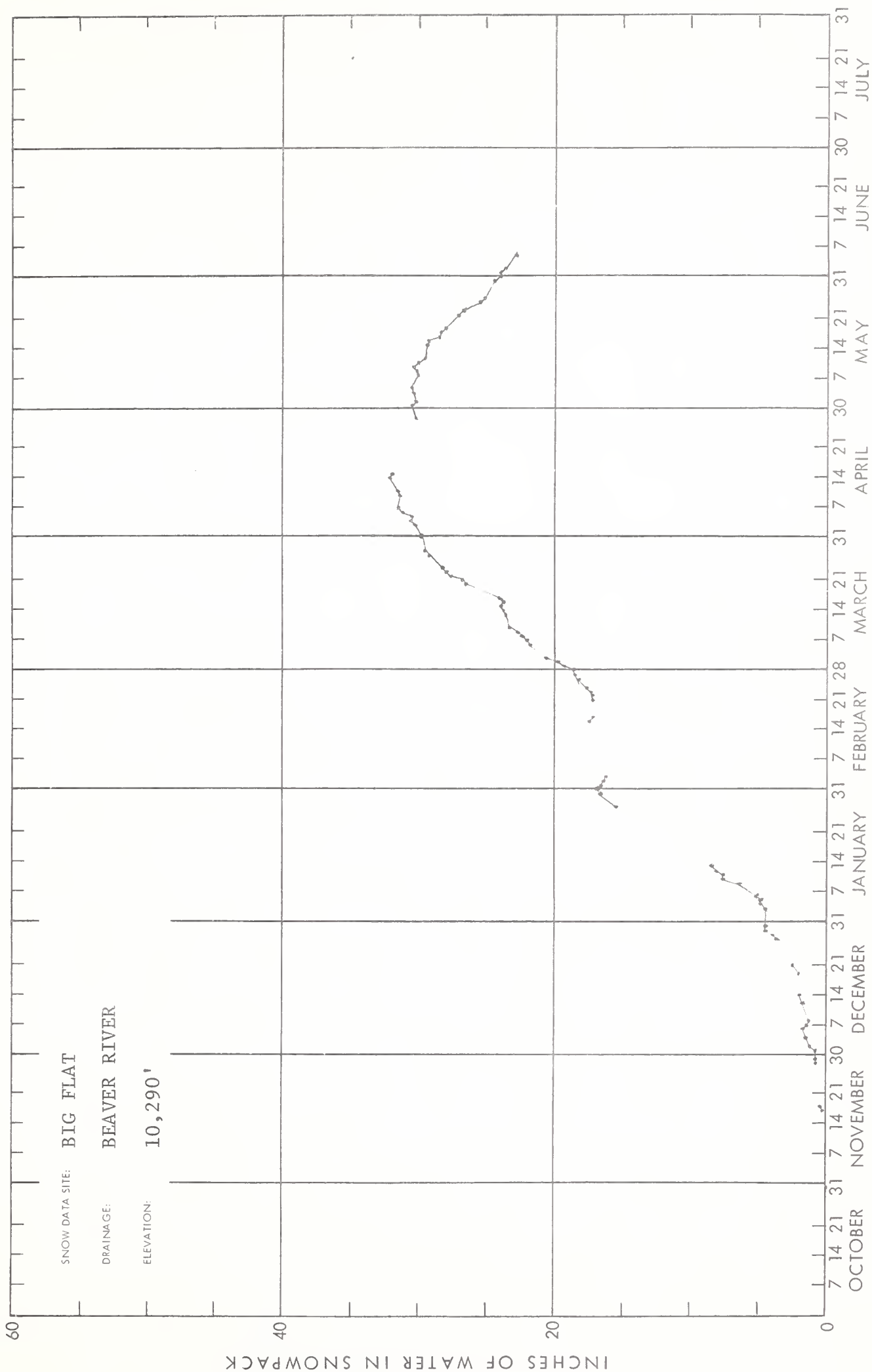


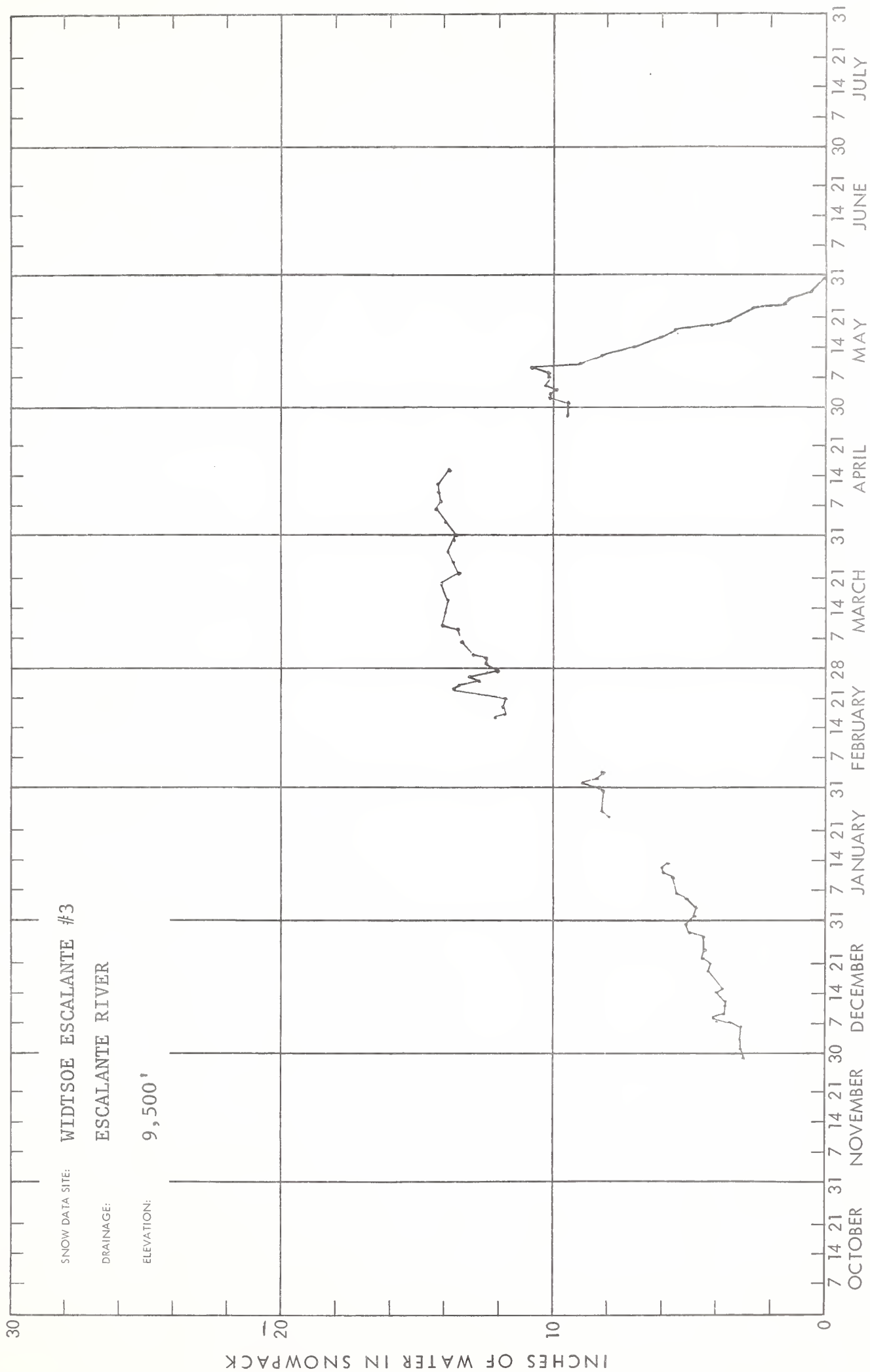












The Soil Conservation Service SNOTEL system is undergoing testing and evaluation, with limited data available to interested water users.

The following report is typical of information that will be available from 30 remote stations in Utah this fall. SNOTEL stations throughout the west will number 511 by 1980, with 63 sites in Utah reporting snow water content, total precipitation, air temperature, and various other hydrometeorologic values.

This system will not completely replace the older snow survey techniques, for manual measurements will still be taken on easily accessible snow courses but future snow data and streamflow forecasts will be more accurate thanks to this up-to-date information.

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*  SNOTEL TELEMETRY SYSTEM
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*  DATA REPORT FOR UTAH
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NAME : EXAMPLE REPORT
TIME : ON OR ABOUT JUNE 1, 1978

NOTE: ALL DATA IN ENGINEERING UNITS (IN TENTHS XXX.X)

REMOTE SITE NAME	MM/DD/YY HH:MM	RADIO BATTERY VOLTAGE	SNOW PILLOW W.C.	RAIN CATCH FROM 10/1/78	TEMPERATURE IN DEGREES CELSIUS
BEAVER DIVIDE	5/31/78		00G	M	
BEN LOMOND PEAK	5/31/78 14:24	183V	320V	M	3V
BIG FLAT	5/23/78		302G	340G	
BROWN DUCK	5/31/78 6:39	157V	189V	274V	- 151V
BUCK FLAT	5/30/78		98G	428G	
CLEAR CREEK #1	5/30/78 6:27	129V	00V	275V	- 97V
CLEAR CREEK #2	5/30/78 1:46	128V	00V	240V	- 92V
DILL'S CAMP	5/30/78		00G	282G	
FARMINGTON	5/30/78 7:13	112V	238V	397V	- 119V
FRANKLIN BASIN	5/30/78 7:22	138V	201V	481V	- 87V
HORSE RIDGE	5/30/78 7:46	113V	00V	374V	- 115V
INDIAN CANYON	5/30/78 7:16	128V	00V	214V	- 38V
KING'S CABIN	5/31/78 6:25	126V	00V	190V	- 130V
KOLOB	5/24/78 6:25	129V	228V	276V	5V
LAKEFORK #1	5/31/78		110G	189G	
MAMMOTH-COTTONWOOD	5/30/78 7:22	127V	00V	244V	- 96V
MONTE CRISTO	5/30/78		222G	385G	
MOSBY MTN.	5/31/78 9:45	130V	31V	236V	- 7V
FARLEY'S SUMMIT	5/31/78 6:26	125V	00V	340V	- 67V
PICKLE KEG	5/30/78		115G	330G	
RED PINE RIDGE	5/30/78 8: 1	167V	00V	332V	- 56V
SEELEY CREEK	5/30/78 7: 9	167V	132V	M	- 146V
SMITH & MOREHOUSE	5/31/78 14:32	121V	00V	293V	19V
STRAWBERRY DIVIDE	5/31/78 6:21	129V	00V	M	- 134V
TONY GROVE LAKE	5/30/78 7:15	168V	302V	M	- 129V
TRIAL LAKE	5/24/78		293G	379G	
TROUT CREEK	5/31/78 12:46	171V	00V	181V	19V
VERNON CREEK	5/31/78 6:28	136V	00V	339V	- 46V
WHITE RIVER #1	5/30/78		00G	222G	
MIDSTOE #3	5/30/78 7:18	126V	00V	210G	- 19V

FOOTNOTES: V = VALID READING
G = GROUND READING (MANUAL MEASUREMENT)
M = VALUE MISSING

SNOW

DRAINAGE BASIN and/or SNOW COURSE NAME	THIS YEAR			PAST RECORD		PRECIPITATION (Inches)					
	Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (Inches)		CURRENT INFORMATION			FROM APPRDX. OCT. 1 TO DATE		
				Last Year	2 Years Ago	Date of Reading	Month's Precipitation	Average †	This Year	Average †	Percent of Average
GREAT BASIN					Ago						
UPPER BEAR RIVER (Above Harer, Idaho)											
Burts-Miller Ranch	5/31	0	0.0	0.0	0.0	5/31	3.62	2.32a	15.24	13.99a	109
Hayden Fork	5/31	2	0.8	0.0	0.0	5/31	4.35	3.88a	31.66	28.60a	111
Monte Cristo R.S.	5/30	34	19.6	0.0	2.2	5/30	6.12	2.27b	39.11	35.35b	111
Salt River Summit						5/30	3.25	1.45	28.25	20.64	137
Stillwater Camp	5/31	0	0.0	0.0	0.0	5/31	3.66	2.22	19.75	17.32	114
LOWER BEAR RIVER (Below Harer, Idaho)											
Bug Lake	5/30	0	0.0	--	--						
Cub River R.S.	5/31	0	0.0	--	--						
Franklin Basin	5/30	36	19.8	0.0	4.7						
Garden City Summit	5/30	0	0.0	0.0	0.0	5/30	2.84	1.88b	29.29a	25.24b	116
Klondike Narrows	5/30	0	0.0	0.0	0.0	5/30	3.67	2.75b	35.40	29.20b	121
Little Bear (lower)	5/30	0	0.0	0.0	0.0						
Little Bear (upper)	5/30	0	0.0	0.0	0.0						
Steep Hollow #1	5/30	71	39.2	0.0	23.3						
Steep Hollow #2	5/30	17	8.9	0.0	0.0						
Tony Grove Lake	5/30	52	30.2	0.0	10.2						
Tony Grove R.S.	5/30	0	0.0	0.0	0.0	5/30	2.46	1.56a	28.83	22.97a	126
Willow Flat	5/30	0	0.0	--	--						
OGDEN RIVER											
Beaver Creek-Skunk Creek	5/30	0	0.0	0.0	0.0						
Ben Lomond (lower)	5/30	0	0.0	0.0	0.0	5/30	1.94e	2.86b	46.08	32.18b	143
Ben Lomond Peak	5/30	54	31.3	1.9	0.0						
Ben Lomond Trail						5/30	2.08	3.06a	--	32.04a	--
Causey Dam						5/30	1.99	1.59a	17.87	18.23a	98
Cutler Creek	5/30	4	2.2	0.0	0.0						
Dry Bread Pond	5/30	5	2.7	0.0	0.0	5/30	4.42	2.22b	--	27.38b	--
Sagebrush Flat	5/30	0	0.0	0.0	0.0	5/30	2.29	1.41b	20.58	18.29b	112
WEBER RIVER											
Beaver Creek R.S.	5/31	0	0.0	0.0	0.0						
Chalk Creek #1	5/31	33	17.6	0.0	3.5						
Chalk Creek #2	5/31	0	0.0	0.0	0.0						
Chalk Creek #3	5/31	0	0.0	0.0	0.0	5/31	3.92	2.17b	21.97	17.76b	124
East Shingle Lake (A)	5/25	72e	38.9	0.0	3.0						
Farmington Canyon (lower)	5/30	0	0.0	0.0	0.0		Molested	2.96		35.45	
Farmington Canyon (upper)	5/30	38	21.1	0.0	0.0						
Farmington G.S.						5/30	5.69	--	51.37	--	--
Horse Ridge	5/30	0	0.0	0.0	0.0	5/30	4.84	2.21a	36.07	32.87a	110
Kilfoil Creek	5/30	0	0.0	0.0	0.0						
Lost Creek Reservoir	5/30	0	0.0	0.0	0.0	5/30	1.82	--	16.87	--	--
Parley's Canyon Summit	5/31	0	0.0	0.0	0.0	5/31	3.07	2.09	37.63	28.82	131
Redden Mine (lower)	5/31	0	0.0	0.0	0.0						
Redden Mine (upper)						5/31	4.25	2.56a	35.18	27.57a	128
Smith & Morehouse	5/24	0	0.0	0.0	0.0	5/24	4.64	2.18	29.24	24.21	121
Sergeant Lakes (A)	5/25	4	2.2	0.0	0.0						
PROVO RIVER & UTAH LAKE											
Beaver Creek Divide	5/31	0	0.0	0.0	0.0						
Camp Altamont	5/30	0	0.0	0.0	0.0						
Clear Creek Ridge #1	5/30	7	4.0	0.0	0.0						
Clear Creek Ridge #2	5/30	0	0.0	0.0	0.0	5/30	3.00	1.79	25.10	20.34	123
Clear Creek Ridge #3	5/30	0	0.0	0.0	0.0						
Dutchman R.S.	5/30	0	0.0	0.0	0.0	5/30	3.10	2.10	40.00	26.98	148
Hobble Creek Summit	5/30	0	0.0	0.0	0.0	5/30	1.24e	1.91	27.49a	21.62	127
Packard Canyon	5/30	0	0.0	0.0	0.0						
Payson R.S.	5/30	0	0.0	0.0	0.0	5/30	4.30	1.83	29.40	23.00	128
Rock Bridge	5/30	0	0.0	0.0	0.0						
Soapstone R.S.	5/24	0	0.0	0.0	0.0	5/24	2.54	1.71	24.59	20.64	119
South Fork R.S.	5/30	0	0.0	0.0	0.0						
Timpanogos Cave Camp	5/30	0	0.0	0.0	0.0						
Timpanogos Divide	5/30	7	4.4	0.0	0.0	5/31	.90	2.20	44.27	30.77	144
Trial Lake	5/24	56	30.5	0.0	13.4	5/24	2.88	2.54	36.85	29.98	123

SNOW

DRAINAGE BASIN and/or SNOW COURSE NAME	THIS YEAR			PAST RECORD		PRECIPITATION (Inches)					
	Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (Inches)		CURRENT INFORMATION			FROM APPROX. OCT 1 TO DATE		
				Last Year	2 Years	Date of Reading	Month's Precipitation	Average +	This Year	Average +	Percent of Average
JORDAN RIVER & GREAT SALT LAKE					Ago						
Bevans Cabin	5/30	0	0.0	--	0.0						
Lamb's Canyon #2	5/31	0	0.0	0.0	0.0	5/31	2.31	--	30.03	--	--
Middle Canyon	5/30	0	0.0	0.0	0.0	5/31	3.60	2.40b	--	23.21b	--
Mill Creek	5/29	13	6.5	--	--						
Mill D South Fork	5/26	0	0.0	--	--						
Mt. Dell Dam											
Rocky Basin-Settlement Canyon	5/30	44	24.6	--	--	5/30	Data Delayed 4.23	--	39.86	--	--
Silver Lake (Brighton)							Data Delayed				
Vernon Creek	5/31	0	0.0	0.0	0.0	5/31	1.20	--	33.90	--	--
UPPER SEVIER RIVER (South of Richfield, Utah)											
Box Creek	5/24	0	0.0	0.0	0.0	5/24	2.90	1.88	22.93	18.29	125
Castle Valley	5/30	0	0.0	0.0	0.0	5/30	2.25	1.47	23.65	18.99	124
Duck Creek R.S.	5/24	0	0.0	0.0	0.0	5/24	2.56e	1.71	34.72a	22.08	157
Harris Flat	5/24	0	0.0	0.0	0.0						
Kimberly Mine	5/23	19	10.2	0.0	0.0	5/23	4.10	2.17b	30.05	23.18b	130
Midway Valley	5/24	52	26.0	0.0	0.0	5/24	2.40	--	34.90	--	--
Panguitch Lake	5/30	0	0.0	0.0	0.0	5/30	.60	.88	14.00	9.29	151
Squaw Springs	5/23	0	0.0	0.0	0.0						
LOWER SEVIER RIVER (Including San Pitch River)											
Beaver Dams	5/30	0	0.0	0.0	0.0	5/30	3.80	2.14	26.47	18.22	145
Farnsworth Lake	5/23	44	21.3	0.0	--		Not Measured				
G.B.R.C. Headquarters	5/30	4	2.4	0.0	0.0	5/30	2.30	2.30	29.20	23.90	122
G.B.R.C. Majors						6/1	1.20	1.50	16.82	13.50	125
G.B.R.C. Meadows	5/30	50	25.8	0.0	0.0	5/30	--	2.60	38.85	29.80	130
G.B.R.C. Oaks						6/1	1.63	1.60	20.35	16.20	126
Gooseberry R.S.	5/24	0	0.0	0.0	--	5/24	3.50	1.83b	23.75	17.85b	133
Mammoth-Cottonwood Creek	5/30	20	12.4	0.0	0.0	5/30	3.30	2.00b	36.83	24.19b	152
Middle Fork	5/30	57	30.8	2.6	--						
Mt. Baldy R.S.	5/30	53	31.0	0.0	0.0	5/30	--	2.67b	33.60	23.51b	143
Oak Creek	6/1	0	0.0	0.0	0.0	6/1	--	1.72a	28.76	19.05a	151
Pickle Keg Springs	5/30	10	5.8	0.0	--						
Pine Creek	5/23	24	13.2	0.0	0.0	5/31	4.70	3.00	45.15	30.70	147
Ree's Flat	5/30	0	0.0	0.0	--	5/30	2.30	--	25.05	--	--
Shingle Mill	6/1	0	0.0	0.0	0.0	6/1	2.18	2.06b	25.63	19.33b	132
Thistle Flat	5/30	2	1.0	0.0	--						
BEAVER RIVER											
Beaver Race Track	5/30	0	0.0	0.0	0.0						
Big Flat	5/23	58	26.8	0.0	4.4	5/23	3.60	2.79b	33.98	22.52b	151
Merchant's Valley (upper)	5/23	0	0.0	0.0	0.0	5/23	2.80	2.35a	31.15	19.36a	161
Otter Lake	5/23	33	16.8	0.0	0.0						
PAROWAN CREEK											
Birch Crossing	5/30	0	0.0	0.0	0.0						
Brian Head	5/23	35	18.4	0.0	0.0						
Tall Poles	5/30	0	0.0	0.0	0.0	5/30	2.85	1.67a	25.10	23.77a	106
Vankee Reservoir	5/23	0	0.0	0.0	0.0	5/23	2.90	1.43	21.10	15.77	134
ENTERPRISE TO NEW HARMONY DRAINAGES											
Little Grassy Creek	5/30	0	0.0	0.0	0.0	5/30	2.00	.88b	27.05	15.61b	173
Long Flat	5/24	0	0.0	0.0	--	5/24	2.35	1.23b	21.15	14.24b	148
COAL CREEK											
Cedar City Golf Course	5/30	0	0.0	0.0	0.0						
SUSC Ranch	5/30	0	0.0	0.0	0.0						

SNOW

SNOW	THIS YEAR			PAST RECORD		PRECIPITATION (Inches)							
	DRAINAGE BASIN and/or SNOW COURSE	Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (Inches)		CURRENT INFORMATION			FROM APPROX. OCT		TO DATE	
					Last Year	2 Years Ago	Date of Reading	Month's Precipitation	Average †	This Year	Average †	Percent of Average	
NAME													
COLORADO RIVER DRAINAGE													
UPPER GREEN RIVER - UTAH													
Ashley-Twin Lakes (A)	5/25	36	14.0	0.0	2.0								
Black's Fork G.S.-East Fork	5/31	0	0.0	0.0	0.0	5/31	5.05	2.44b	21.38	17.55b	122		
Black's Fork Junction	5/31	0	0.0	0.0	0.0	5/31	5.15	2.35b	20.53a	16.82b	122		
Buck Pasture (A)	5/31	24	11.4	0.0	0.0								
Burnt Creek	6/2	0	0.0	0.0	0.0	6/2	4.77	2.84b	15.50	14.91b	104		
Grizzly Ridge	6/2	0	0.0	0.0	0.0	6/2	4.10	2.64b	20.82	19.33b	108		
Henry's Fork (A)	5/25	37	15.2	0.0	0.0								
Hewinta G.S.	5/31	0	0.0	0.0	0.0	5/31	6.15	2.51b	22.96	18.40b	125		
Hickerson Park	5/31	0	0.0	0.0	0.0	5/31	5.45	2.89a	15.41	14.89a	103		
Highline Trail	5/31	34	13.1	0.0	13.1	5/31	--	--	23.25	--	--		
King's Cabin (lower)	5/31	0	0.0	0.0	0.0								
King's Cabin (upper)	5/31	0	0.0	0.0	0.0	5/31	3.86	2.60	18.98	16.81	113		
Reynolds Park (A)	5/25	36	16.2	0.0	1.0								
Spirit Lake	5/31	15	6.1	0.0	7.2	5/31	6.75	3.68b	22.74	22.38b	102		
Steel Creek Park	5/31	47	19.1	0.0	9.6								
Trout Creek	5/31	0	0.0	0.0	0.0	5/31	4.70	--	18.12	--	--		
Windy Park (A)	5/25	12	4.7	0.0	0.0								
DUCESNE RIVER													
Atwood Lake (A)	5/25	27	12.2	0.0	0.0								
Brown Duck Ridge	5/31	40	18.9	2.0	9.6	5/31	2.82	--	24.55	--	--		
Chepeta-Whiterocks (A)	5/25	29	13.0	0.0	0.0								
Currant Creek	5/30	0	0.0	0.0	0.0	5/30	1.30	1.34b	20.68	17.24b	120		
Daniels-Strawberry Summit	5/30	0	0.0	0.0	2.6	5/30	2.55	1.64	31.73	22.17	143		
East Portal	6/1	0	0.0	--	--	6/1	1.46	2.25b	28.54	23.61b	121		
Five Points Lake (A)	5/25	41	15.6	3.0	--								
Indian Canyon	5/30	0	0.0	0.0	0.0	5/30	2.50	1.71b	22.61	17.37b	130		
Jackson Park	5/31	18	7.7	0.8	9.8	5/31	3.31	--	21.71	--	--		
Lakefork Basin (A)	5/25	60	22.8	0.0	10.0								
Lakefork Mountain #1	5/31	10	3.8	0.0	0.8	5/31	2.85	2.26	20.85	17.49	119		
Lakefork Mountain #3	5/31	0	0.0	0.0	0.0								
Lightning Lake (A)	5/25	70e	33.6	3.0	6.0								
Mosby Mountain	5/31	14	5.7	0.0	2.2	5/31	3.39	2.65a	21.76	15.91a	137		
Paradise Park	5/31	25	11.2	0.0	8.2	5/31	2.52	2.50	21.64	20.56	105		
Rock Creek	5/31	0	0.0	0.0	0.0	5/31	2.00	1.59	18.23	14.79	123		
Strawberry Divide	6/1	0	0.0	0.0	0.0								
PRICE RIVER													
Dry Valley Divide	5/30	0	0.0	0.0	0.0								
Gooseberry Reservoir	5/30	14	8.4	0.0	0.0	5/30	3.50	2.04	37.04	23.62	157		
Jones Ranch	5/30	0	0.0	0.0	0.0								
Mud Creek	5/30	0	0.0	0.0	0.0	5/30	2.30	1.66	23.90	18.56	129		
White River #1	5/30	0	0.0	0.0	0.0	5/30	2.25	--	22.15	--	--		
White River #2	5/30	0	0.0	0.0	0.0								
White River #3	5/30	0	0.0	0.0	0.0								
SAN RAFAEL RIVER													
Buck Flat	5/30	21	11.4	0.0	0.0	5/30	4.00	2.15	32.05	22.43	143		
Huntington-Horseshoe	5/30	54	30.8	1.2	--								
Orange Olsen	5/30	0	0.0	0.0	0.0	5/30	1.70	.79a	13.35	10.85a	123		
Red Pine Ridge	5/30	3	1.6	0.0	0.0	5/30	3.90	1.93	33.18	25.74	129		
Rush Pond	5/30	4	2.2	0.0	0.0								
Seeley Creek R.S.	5/30	32	16.8	0.0	0.0	5/30	4.60	--	--	--	--		
Stuart R.S.	5/30	0	0.0	0.0	0.0	5/30	1.75	1.40b	20.05	15.72b	128		
Upper Joe's Valley	5/30	0	0.0	0.0	0.0								
Wrigley Creek	5/30	0	0.0	0.0	0.0								
MUDDY RIVER													
Black's Fork	5/30	4	1.9	0.0	--								
Dill's Camp	5/30	0	0.0	0.0	--	5/30	3.20	--	28.23	--	--		
FREMONT RIVER													
Black's Flat-U.M. Creek	5/23	0	0.0	0.0	0.0	5/24	3.50	1.81	22.28	16.28	137		
Fish Lake	5/23	0	0.0	0.0	0.0	5/24	2.00	1.39	17.50	12.39	141		
Johnson Valley	5/23	0	0.0	0.0	--								

SNOW

DRAINAGE BASIN and/or SNOW COURSE NAME	THIS YEAR			PAST RECORD		PRECIPITATION (Inches)					
	Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (Inches)		CURRENT INFORMATION			FROM APPROX. OCT 1 TO DATE		
				Last Year	2 Years Ago	Date of Reading	Month's Precipitation	Average +	This Year	Average +	Percent of Average
SOUTHEASTERN UTAH DRAINAGES											
Buckboard Flat	5/31	0	0.0	0.0	0.0	5/31	2.03	1.73	19.55	22.26	88
Camp Jackson	5/31	0	0.0	0.0	0.0	5/31	2.25	1.33 ^b	26.01	19.38 ^b	134
LaSal Mountain (lower)	5/30	0	0.0	0.0	0.0						
LaSal Mountain (upper)	5/30	5	2.3	0.0	0.0	5/30	1.94	2.31 ^b	27.96	20.57 ^b	136
Monticello City Park	5/31	0	0.0	0.0	0.0						
ESCALANTE RIVER											
Widtsoe-Escalante Summit		Not Measured		1.6e	0.0						
Widtsoe-Escalante #2		"		2.4e	0.4						
Widtsoe-Escalante #3	5/30	0	0.0	2.4e	0.6	5/30	2.10	1.66	20.98	17.10	123
VIRGIN RIVER											
Kolob-Crystal	5/24	40	22.8	0.0	0.0						
Long Valley Junction	5/24	0	0.0	0.0	0.0						
Webster Flat	5/24	21	11.4	0.0	0.0	5/24	2.00	1.90 ^b	38.20	24.98 ^b	153
a - Partly Estimated b - Average of all past record - less than 15 years + - 1958-72 15 year average period (A) - Aerial Marker Reading e - Estimated											
ADDITIONS and CORRECTIONS TO PREVIOUSLY PUBLISHED 1978 DATA											
JANUARY 1, 1978											
No corrections											
FEBRUARY 1, 1978											
Salt River Summit						1/30	4.88	3.77	16.75	10.81	155
Tony Grove Lake	1/31	102	37.4	4.5	--						
Box Creek	1/30	29	7.3	2.9	--						
Shingle Mill	2/1	31	7.8	2.1	4.7 ^b						
Merchants Valley Upper	1/30	38	9.2	3.5	--						
Johnson Valley	1/30	24	6.9	1.0	--						
MARCH 1, 1978											
Clear Creek Ridge #1	3/8	69	23.9	5.0	15.1						
Clear Creek Ridge #2	3/8	52	16.0	4.6	11.3	3/8	4.60	2.78	17.70	12.52	141
Clear Creek Ridge #3	3/8	28	9.6	2.0	6.9						
Silver Lake (Brighton)						3/1	6.52	4.94	24.95	22.67	110
APRIL 1, 1978											
North Fork	3/31	42	18.9	--	--						
Timpanogos Divide						4/1	10.85	3.41	37.62	24.50	154
Mt. Dell Dam						4/1	4.14	2.27	14.95	13.35	112
Silver Lake (Brighton)						4/1	5.91	5.02	30.86	27.69	111
Long Flat	4/1	18	7.6	0.5	4.8						
Grassy Trail-Left Fork	3/31	42	15.9	0.0	8.2 ^b						
Timberline	3/31	58	20.5	3.3	14.1 ^b						
Buckboard Flat	3/28	25	12.9	2.4	11.8						
MAY 1, 1978											
Shingle Mill	5/3	0	0.0	0.0	1.9 ^b	5/3	4.40	3.56 ^b	23.45	17.27 ^b	136
Mud Creek	4/26	25	12.3	0.0	7.7						
Black's Fork	4/26	42	21.3	0.0							
Camp Jackson	4/28	18	8.4	0.0	4.5 ^b						
LaSal Mountain (upper)	4/29	52	23.8	0.0	11.7 ^b						

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